

USGS Realignment, Science Planning, and FY 2012 Budget

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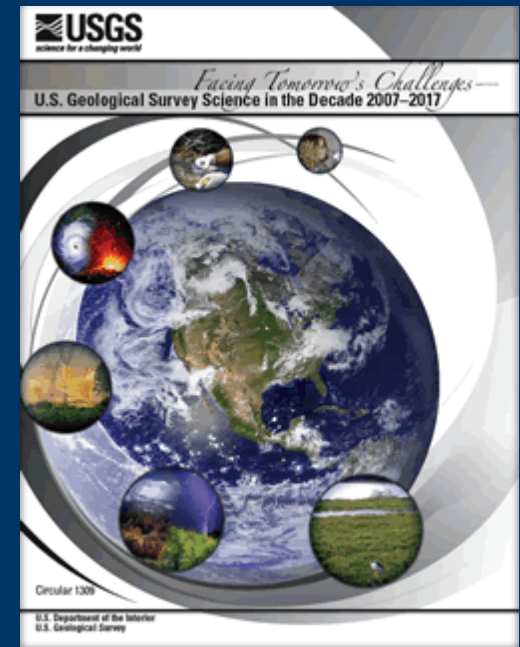
USGS Realignment



USGS Science Strategy

Evolving from an organization that was created to inventory the Nation's public lands and natural resources, the mission of the 21st century USGS is characterized as:
“Science for a Changing World.”

- to respond to evolving national and global priorities, USGS must periodically reflect on, and optimize, its strategic directions.
- This 2007 report was the first comprehensive science strategy since the early 1990s to critically examine major USGS science goals and priorities.



Mission area science strategies

- in 2010 USGS aligned leadership and science staff with the six major science directions in the 2007 Science Strategy
- Strategic Science Planning Teams appointed for all 6 future science directions
- Global Change team completed draft science strategy & posted for review
- we seek stakeholder input
- comments requested by April 8, 2011

“The purpose of the SSPT is to develop a comprehensive 5-year strategic plan, including research priorities and associated implementation steps for USGS Global Change Science.”

USGS Director Marcia McNutt, January 26, 2010

Global Change Science Strategy

USGS Core strengths identified:

- Fundamental and applied science
- Long-term research and monitoring
- Integration of climate and environmental data
- Consistent data collection and synthesis
- Multi-scale studies
- Synthesis, assessment, modeling
- Comprehensive characterizations (based on mapping, monitoring, research)
- National / global presence
- Fundamental process studies
- National-scale mapping

Global Change Science Strategy

Defines 6 programmatic goals for global change science over short-term (1-5 years) & longer-term (5-10 years), along with strategic actions, products and key partnerships.

Progress towards the six interconnected goals will improve understanding of:

- rates, causes and impacts of past global changes;
- the global carbon cycle;
- land use and land cover change rates, causes, and consequences;
- droughts, floods, and water availability under changing land use and climate;
- coastal response to sea-level rise, climatic hazards, and human development; and
- biological responses to global change.

**PLEASE Provide your comments and
suggestions by April 8, 2011**

<http://pubs.usgs.gov/of/2011/1033/>

**For additional
information contact:**

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President's FY 2012 budget proposal

| Mission Area (\$000) | 2010 enacted | 2012 President's Request | Change from 2010 (+/-) |
|--|------------------|--------------------------------|------------------------------|
| Ecosystems | 165,587 | 166,423 | 836 |
| Climate and Land Use Change | 138,019 | 106,405 | -31,614 |
| Energy, Minerals, & Environmental Health | 101,512 | 88,518 | -12,994 |
| Natural Hazards | 138,951 | 133,869 | -5,082 |
| Water Resources | 221,223 | 199,600 | -21,623 |
| Core Science Systems | 124,857 | 105,875 | -18,982 |
| Administration & Enterprise Information | 115,194 | 116,555 | 1,361 |
| Facilities | 106,397 | 100,792 | -5,605 |
| Subtotal | 1,111,740 | 1,018,037 | -93,703 |
| Land imaging | 0 | 99,817 | 99,817 |
| USGS Total | 1,111,740 | 1,117,854 | 6,114 |

Climate variability

| | FY 2010 Enacted total (\$ 1000) | FY 2012 President's Request | FY 2010 to FY 2012 change |
|--------------------------------------|---------------------------------------|-----------------------------------|---------------------------------|
| NCCWSC / DOI Climate Science Centers | 15,143 | 25,573 | +11,000 |
| Climate Research & Development | 32,939 | 24,141 | -8,022 |
| Carbon Sequestration Assessment | 10,095 | 14,345 | +4,000 |
| Science Support for DOI Bureaus | 5,000 | 8,860 | +4,000 |
| Total | 63,177 | 72,919 | +11,578 |

FY 2012: National Land Imaging, proposed

- 2012 budget proposes \$99.8 M in new account for the National Land Imaging Program, an increase of \$59.6 M from Landsat funding at the 2010 Enacted/2011 CR level.
- new account is established to carry out Dept. of Interior's Landsat role in land imaging and remote sensing under the President's National Space Policy.
- \$13.4 M increase for Landsat 8 operations to complete the retooling of the ground receiving stations to receive data from the new instruments on Landsat 8, expected to be launched in December 2012.

FY 2012: National Land Imaging, proposed

- budget proposes \$48 M for planning activities with NASA for Landsat 9, including:
 - gathering and prioritizing Federal user community requirements for land image data,
 - conducting trade studies on key design alternatives related to the development of the imaging device,
 - initiating procurement process through NASA for Landsat 9 instrument and spacecraft, and,
 - establishing a science advisory team.

The activities in this program are managed under the Climate and Land Use Change mission area.

Conclusions

- the budget environment in FY2011 and FY2012 will be constraining at best.
- we look forward to your comments and suggestions for the draft USGS global change science plan
- thank you for your advice and counsel as we move forward with the Landsat program

Muchas gracias!

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